



## SEQUENCE LISTING

<110> KAKEFUDA, GENICHI  
KOOP, HANS-ULRICH  
STURNER, STEPHEN  
ZHEN, RUI-GUANG

<120> CYANOBACTERIAL NUCLEIC ACID FRAGMENTS ENCODING PROTEINS  
USEFUL FOR CONTROLLING PLANT TRAITS VIA NUCLEAR OR  
PLASTOME TRANSFORMATION

<130> BASF 100,100 PRV

<140> 09/893,033

<141> 2001-06-27

<150> 60/214,705

<151> 2000-06-27

<160> 19

<170> PatentIn Ver. 2.1

<210> 1

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 1

cgaattccct ggtagcattt aatacaaatt ggc

33

<210> 2

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 2

cgcataagct ttgcagatgg agacgggttg ggc

33

<210> 3

<211> 1735

<212> DNA

<213> Synechocystis sp.

<400> 3

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tgcgcgttgt gatcgccgga gccggattag ccggcctagc ctgtgcaaaa tacttagccg 180  
atgcgggctt tacccccgtc gtcttggaac gtagggatgt attaggcggg aagatcgccg 240  
cgtggaaaga tgaggacgga gattggtacg aaaccggcct acacattttt ttggggcct 300

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cctggccgga gaaaattcgc tttggcttgg gactcttgcc ggccattgtc cagggccaga 540
gctatgtgga agaaatggat aaatacactt ggtcagagtg gatggccaaa caaaatattc 600
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cccagcgtgc agttaccaa cccaatcct ggtggctgac ttccgaacct cgccgtcct 1680
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<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Primer

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<220>
<221> modified_base
<222> (3)
<223> a, g, c or t

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<220>
<221> modified_base
<222> (6)
<223> a, g, c or t

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<220>
<221> modified_base
<222> (12)
<223> a, g, c or t

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<400> 4
ggnacngayg cnttycarga

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20

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<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Primer

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<221> modified\_base

<222> (10)

<223> a, g, c or t

<220>

<221> modified\_base

<222> (13)

<223> a, g, c or t

<400> 5

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18

<210> 6

<211> 1959

<212> DNA

<213> Synechocystis sp.

<220>

<221> modified\_base

<222> (1843)

<223> a, t, c, g, other or unknown

<400> 6

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cccggtgacg ttaatctacc gggttatcgc ccacaggta aaggtaatcc ccgacaaatt 720
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tgcgcaagcg ggaagatttg gccccggcga tcgccgaaat gctagcccac aatggtcctg 1740
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 gtggagccaa actctaacc ataagccaaa attgaattc 1959

<210> 7  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer

<400> 7  
 attgacattt ttggcatc 18

<210> 8  
 <211> 19  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer

<400> 8  
 tatccgccgc actacgtac 19

<210> 9  
 <211> 22  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer

<400> 9  
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<210> 10  
 <211> 22  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer

<400> 10  
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<210> 11  
 <211> 22  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer  
  
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 <210> 12  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer  
  
 <400> 12  
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 <210> 13  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer  
  
 <400> 13  
 ccaatttcgt gtactacctc ctg 23  
  
 <210> 14  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Primer  
  
 <400> 14  
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 <210> 15  
 <211> 22  
 <212> DNA  
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 <220>  
 <223> Description of Artificial Sequence: Primer  
  
 <400> 15  
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 <210> 16  
 <211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 16

ggccctaataa cttggattcc agg

23

<210> 17

<211> 565

<212> DNA

<213> *Synechocystis* sp.

<400> 17

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cgccgtgggt ttaacattga gagcttggcg gtgggggtcgg cggaacaggg ggacgtttcc 180  
cgcatcacca tgggtggtgcc gggggatgag aacaccatcg aacaactgac caagcaactc 240  
tacaagttgg ttaacgtaat taaagtacag gacatcaccg aaactccctg tgtggaaagg 300  
gaattgatgc tggatgaagg gagcgccaat gccctaacc gagcggaagt gattgagcta 360  
gccaggtat tccggggccg cattgtggat atctccgaag acaccgtcac catcgaatgg 420  
tgggggaccc gggtaaaatg gtagcaatcc tccagatgtt ggccaagttg gcattaaaga 480  
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<210> 18

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 18

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25

<210> 19

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 19

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30